

Table of Contents

Title	Page
1 Purpose and Need	1-1
1.1 Purpose and Need for the Proposed Action	1-1
1.2 The NEPA Process	1-2
2 Description of Proposed Action and Alternatives.....	2-1
2.1 Site Selection.....	2-1
2.2 No Action Alternative.....	2-2
2.3 Proposed Action	2-2
2.3.1 Fuel Storage and Delivery Facilities	2-3
2.3.2 Water Storage and Distribution Facilities	2-4
2.3.3 Electrical Duct Bank	2-5
3 Affected Environment	3-1
3.1 Land Use, Plans, and Coastal Zone Management	3-1
3.1.1 Land Use.....	3-1
3.1.2 Plans	3-2
3.1.3 Coastal Zone Management	3-3
3.2 Transportation	3-4
3.4.1 Highway and Street Network.....	3-4
3.4.2 Existing Traffic Volumes	3-4
3.3 Air Quality.....	3-5
3.3.1 National Ambient Air Quality Standards	3-5
3.3.2 National Ambient Air Quality Standard Attainment Status	3-6
3.3.3 State Implementation Plan.....	3-7
3.3.4 Local Ambient Air Quality	3-8
3.3.5 Stationary Sources.....	3-9
3.3.6 Clean Air Act Conformity	3-9
3.4 Noise	3-10
3.5 Infrastructure	3-11
3.5.1 Potable Water Supply.....	3-11
3.5.2 Wastewater.....	3-11
3.5.3 Electricity.....	3-12
3.5.4 Heating/Cooling	3-12
3.5.5 Solid Waste	3-12
3.5.6 Stormwater.....	3-12
3.6 Cultural Resources.....	3-13
3.7 Natural Resources.....	3-14

Table of Contents

Title	Page
3.7.1 Topography and Geology	3-14
3.7.2 Floodplains.....	3-15
3.7.3 Soils	3-15
3.7.4 Groundwater	3-16
3.7.5 Surface Water.....	3-16
3.7.6 Vegetation.....	3-16
3.7.7 Wetlands and Chesapeake Bay Preservation Areas	3-18
3.7.8 Wildlife.....	3-19
3.7.9 Threatened and Endangered Species.....	3-20
3.8 Hazardous Substances.....	3-21
4 Impacts of the Proposed Action and Alternatives	4-1
4.1 Impacts on Land Use, Plans, and Coastal Zone Management	4-1
4.1.1 Land Use.....	4-1
4.1.2 Master Plans.....	4-3
4.1.3 Coastal Zone Management	4-4
4.2 Transportation and Traffic Impacts	4-5
4.2.1 No Action Alternative	4-5
4.2.2 Proposed Action	4-5
4.3 Air Quality Impacts	4-6
4.3.1 No Action Alternative	4-6
4.3.2 Proposed Action	4-6
4.4 Noise Impacts	4-9
4.4.1 No Action Alternative	4-10
4.4.2 Proposed Action	4-10
4.5 Infrastructure Impacts	4-11
4.5.1 Potable Water Supply.....	4-11
4.5.2 Wastewater.....	4-11
4.5.3 Electricity	4-12
4.5.4 Heating/Cooling	4-12
4.5.5 Solid Waste	4-13
4.5.6 Stormwater.....	4-13
4.6 Impacts on Cultural Resources.....	4-14
4.6.1 No Action Alternative	4-14
4.6.2 Proposed Action	4-14
4.7 Impacts on Natural Resources	4-15
4.7.1 Topography and Geology	4-15
4.7.2 Floodplains.....	4-15
4.7.3 Soils	4-16
4.7.4 Groundwater	4-17

Table of Contents

Title	Page
4.7.5 Surface Water.....	4-18
4.7.6 Vegetation.....	4-19
4.7.7 Wetlands and Chesapeake Bay Preservations Areas.....	4-20
4.7.8 Wildlife.....	4-21
4.7.9 Threatened and Endangered Species.....	4-21
4.8 Impacts on Hazardous Substances.....	4-22
4.8.1 No Action Alternative	4-22
4.8.2 Proposed Action	4-22
4.9 Cumulative Impacts	4-23
4.10 Unavoidable Adverse Impacts.....	4-23
4.11 Relationship Between Local Short-Term Use of the Environment and the Enhancement of Long-Term Productivity	4-24
4.12 Irreversible and Irrecoverable Commitments of Resources	4-24
4.13 Conclusion.....	4-25
5 Mitigation Measures.....	5-1
6 Relationship of Proposed Action to Federal, State, and Local Plans, Policies, and Controls.....	6-1
6.1 NEPA	6-1
6.2 Clean Water Act	6-1
6.3 Clean Air Act	6-2
6.4 CERCLA and SARA	6-2
6.5 Endangered Species Act.....	6-3
6.6 National Historic Preservation Act.....	6-3
6.7 Coastal Zone Management Act	6-3
6.8 Executive Order 11990, Protection of Wetlands	6-4
6.9 Executive Order 11988, Floodplain Management.....	6-4
6.10 Executive Orders 12898 and 13045, Environmental Justice and the Protection of Children	6-5
6.11 Other State and Local Plans and Policies.....	6-5
7 References	7-1
8 Acronyms and Abbreviations.....	8-1
9 List of Preparers.....	9-1

Table of Contents

Title	Page
Appendices	
Appendix A – General Conformity Rule Analysis	
Appendix B – Record of Non-Applicability	
Appendix C – Correspondence	

List of Figures

Number	Title	Following Page
1-1	Location of Fort Belvoir	1-2
1-2	Project Study Area	1-2
2-1	The Proposed Action	2-2
2-2	Project Facilities.....	2-4
3-1	Land Use at Fort Belvoir	3-2
3-2	Land Use.....	3-2
3-3	Fort Belvoir Area Roads.....	3-4
3-4	Topography.....	3-14
3-5	Soils	3-16
3-6	Vegetation.....	3-16
3-7	Environmental Protection Areas	3-18

List of Tables

Number	Title	Page
3-1	Land Use at Fort Belvoir's Upper North Post	3-2
3-2	National and Virginia Ambient Air Quality Standards	3-6
3-3	Local Ambient Air Quality	3-8
3-4	Noise Levels from Common Sources.....	3-11
3-5	Plant Communities at Project Sites	3-17
4-1	Annual Operational Levels of Tank Farm and Fuel Delivery Operations	4-7
4-2	Estimated Emissions Resulting from Construction Activities	4-8
4-3	Proposed Action Total Annual Emission Levels	4-9
4-4	Average Ability to Perceive Changes in Noise Levels	4-10